

D1

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 01108226
PUBLICATION DATE : 25-04-89

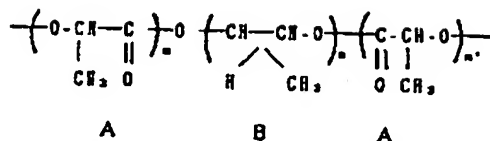
APPLICATION DATE : 20-10-87
APPLICATION NUMBER : 62262894

APPLICANT : MITSUI TOATSU CHEM INC;

INVENTOR : YAMANE HIDEKI;

INT.CL. : C08G 63/66 A61L 17/00 A61L 31/00
C08J 5/18 C08J 5/18 D01F 6/62
D01F 6/86

TITLE : BLOCK, COPOLYMER, ITS
PRODUCTION, COPOLYMER FILM
AND COPOLYMER FIBER



ABSTRACT : PURPOSE: To obtain the title copolymer excellent in hydrophilicity etc., and useful as a medical fiber or film, by polymerizing a (d)l-lactide with polypropylene glycol in the presence of a specified catalyst.

CONSTITUTION: 100pts.wt. (d)l-lactide (i) is mixed with 2-100pts.wt. polypropylene glycol (ii) either of whose ends is preferably terminated with a secondary OH group and reacted at 60-250°C for several hr in the presence of a cationic polymerization catalyst (iii) which is preferably a trimethylaluminum-water system catalyst to obtain a block copolymer comprising 70-98wt.% polylactic acid segment (A) and 2-30wt.% polypropylene glycol segment (B) and represented by the formula (wherein m and m' are positive integers, including 0, provided that they cannot be simultaneously 0, and n is a positive integer).

COPYRIGHT: (C)1989,JPO&Japio